



Annual Report 2005–2006

CALIFORNIA
ACADEMY OF SCIENCES

875 Howard Street, San Francisco, California 94103
STEINHART AQUARIUM • NATURAL HISTORY MUSEUM • RESEARCH • EDUCATION

California Academy of Sciences Rebuilding Project Fact Sheet

The California Academy of Sciences is constructing a dynamic new facility in Golden Gate Park. The new Academy will combine innovative green architecture with inventive exhibitions to inspire its visitors to explore and protect the natural world. The new Academy will house Steinhart Aquarium, Morrison Planetarium, and the Kimball Natural History Museum.

Opening Date Late 2008

Groundbreaking Date September 2005

Design Features and Integration into Golden Gate Park

- The new Academy will be integrated more sensitively into the natural environment of Golden Gate Park.
- The facility will employ energy-efficient, environmentally-sensitive building technologies that will set a new standard for sustainable architecture in civic buildings.
- A living planted roof will feature undulating hills that echo the landscape around the Academy. A small portion of the roof will be accessible to visitors and will feature an exhibit area.

Exhibitions and Public Spaces Highlights

- The new Academy will feature flexible, integrated exhibition spaces. Portions of the Academy's research collections will be visible to museum visitors, and special programs will offer visitors the chance to interact with Academy biologists.
- The new Morrison Planetarium will feature state-of-the-art exhibits and digital technology.
- The new Steinhart Aquarium will include a two-story Swamp; the world's deepest living coral reef display; a Discovery Tidepool, and hundreds of "jewel" tanks to showcase the stunning diversity of aquatic life.
- A dramatic four-story Rainforests of the World exhibit will offer a vertical journey through four different rainforest habitats.
- Live animals will be displayed throughout the museum, including penguins in the restored African Hall.
- A new piazza will sit at the heart of the building, and views into Golden Gate Park from within the new facility will strengthen the Academy's relationship to the park.

Enhanced Education Spaces and Services

- A new hands-on Naturalist Center will be staffed by education specialists and will feature labs and classrooms.
- An expanded early childhood education center will cater to children up to age six and their caregivers.
- A new Auditorium will feature flexible set-up options and retractable seating.

Facility Dimensions

Total square footage in new Academy: 410,000 square feet. Total public space: 100,000 square feet. The new Academy will have more useable square footage than the previous facility but will leave a smaller footprint in the park due to the addition of a basement and more efficient use of interior space.

Project Team

Architecture: Renzo Piano Building Workshop (Genoa, Italy); Chong Partners Architecture (San Francisco). Engineering and Sustainability Consulting: Arup. Landscape Architecture: SWA Group. General Contractor: Webcor Builders.



California Academy of Sciences

Board of Trustees 2005-2006

Alissa J. Arp, Ph.D.
Laurence M. Baer
W. Richard Bingham, Chair
Shawn Byers
Peter Y. Chung
Joyce Mobley Corrigan
Richard P. Emerson
Elizabeth Fisher
Mark Gaumond
Edward A. Gilhuly
John E. Hafernik, Ph.D.
Harry R. Hagey
William R. Hearst, III
David A. Hoyt
Ann L. Johnson, M.D.
Richard G. Klein, Ph.D.
Thomas B. Klein
Martha Kropf
John W. Larson
Laura F.K. Lazarus
Laura D. Mateo
Janet B. McKinley
Linda Meier
George G. Montgomery, Jr.
David Morrison, Ph.D.
Michael J. Murray
Arthur Patterson
William J. Patterson
Carmen A. Policy
Evert I. Schlinger, Ph.D.
Fidela Z. Schneider
Judy Siebel
Thomas W. Tusher
Robert D. Valdez
Ward B. Watt, Ph.D., President
William Wilson, III

J. Patrick Kociolek, Ph.D. Executive Director

California Academy of Sciences Honorary Trustees

Peter Avenali
Foster Bam
Stephen D. Bechtel, Jr.
Peter B. Bedford
Roberta Borgonovo
Robert I. Bowman
Hamilton W. Budge
Lyman H. Casey
William A. Clemens, Ph.D.
Lewis W. Coleman
Paul L. Davies, Jr.
Lynn Dunne
Milo S. Gates
John R. Grey
Rosemary B. Hewlett
F. Clark Howell, Ph.D.
William J. Hume
George F. Jewett, Jr.
James C. Kelley, Ph.D.
Patrick V. Kirch, Ph.D.
W. M. Laetsch, Ph.D.
Sandra Linder
Jasques Littlefield
John S. Livermore
Lucia Matzger
Harold A. Mooney, Ph.D.
Gladys Moore
Mervin G. Morris
John S. Pearse, Ph.D.
Christine H. Russell
Russell L. Schweickart
Clare H. Springs
Tania Stepanian
Richard T. Thieroit
Charles H. Townes, Ph.D.
Marvalee H. Wake, Ph.D.
Barry Williams
Ann Witter
Paul M. Wythes
Russell D. Woo, M.D.
Adrienne L. Zihlman, Ph.D.

Donors

\$25,000.00 +

Amgen Foundation
 Anonymous
 Anonymous
 Anonymous
 Anonymous
 Anonymous
 Anonymous
 Anonymous
 Anonymous
 Anonymous
 Mr. and Mrs. Timothy Arnstein
 Mr. and Mrs. Peter Avenali
 Mr. and Mrs. Gerson Bakar
 S. D. Bechtel, Jr. Foundation
 Richard Beleson and Kim Lam Beleson
 Mr. and Mrs. Donald P. Black
 Estate of Dorothy Frances Boyesen
 The Byers Family
 Frank A. Campini Foundation
 Mr. and Mrs. Lyman H. Casey
 Mr. Timothy Dattels and
 Ms. Kristine Johnson
 Department of Children,
 Youth and Their Families
 Dodge & Cox
 Mr. and Mrs. Richard P. Emerson
 Conception S. and Irwin Federman
 Randi and Bob Fisher
 Ned and Karen Gilhuly
 Mr. A. J. Giustina
 Shirley and Harry Hagey
 David and Janyce Hoyt
 Mr. and Mrs. George F. Jewett, Jr.
 Dr. Ann L. Johnson
 Lakeside Foundation
 John and Pamela W. Larson
 LEF Foundation
 Lois B. Lippincott
 Edmund Wattis Littlefield Foundation
 Mrs. Edmund W. Littlefield
 The Andrew W. Mellon Foundation
 Steven L. Merrill
 Mr. and Mrs. George G. Montgomery, Jr.
 Mr. and Mrs. Michael J. Murray
 Pacific Gas & Electric Company
 Wendy and Fred Parkin
 Liebe and Bill Patterson
 Mr. and Mrs. Greg Penner
 Patricia Price Peterson Foundation
 Mr. and Mrs. Claude N. Rosenberg, Jr.
 The Schlinger Foundation
 Mr. Peter L. Schmidt
 Roane and Clare Sias
 Mr. and Mrs. William L. Thornton

Wallis Foundation
 Washington Mutual, Inc.
 Patricia and William Wilson III

\$10,000.00-\$24,999

Mr. and Mrs. Andrew Ach
 Estate of Frank W. and Margaret Adelstein
 American Association For The
 Advancement of Science
 Anonymous
 Anonymous
 Anonymous
 AT&T Corp.
 John Atwater and Diana Nelson
 Capital Guardian Trust Co.
 Ed and Nancy Conner
 Buff and Gerald Corsi
 Deutsche Bank Alex Brown
 Ms. Isabelle Z. Dokouzian
 Mrs. Morris M. Doyle
 Dana and Robert Emery
 Estate of Grayce Dolores Ceschi
 Estate of Ruth Celle
 Marion and Jack Euphrat
 Feigenbaum Nii Foundation
 Doris and Donald Fisher
 Dr. and Mrs. William Follette, M.D.
 Franklin Templeton Investments
 Gap Foundation
 Mr. and Mrs. Gordon P. Getty
 Richard and Rhoda Goldman Fund
 Mr. Richard N. Goldman
 Mimi and Peter Haas
 Hellman Family Foundation
 Mrs. Rosemary B. Hewlett
 Dr. and Mrs. David Hodges
 Dr. and Mrs. R. W. Hoellwarth
 Nelson Ishiyama and Terrie McDonald
 Estate of Kathleen Kalbfleisch
 Mr. and Mrs. Thomas B. Klein
 Linda and John Larson
 Latham & Watkins, LLP
 Laura and Michael Lazarus
 Mr. John S. Livermore
 Chris and Stan Mattison
 McKesson Foundation, Inc.
 Mr. and Mrs. Thomas G. McKinley
 John and Leslie McQuown
 Mr. and Mrs. Alexander Mehran
 Nicola Miner and Robert M. Anderson
 Tina and Hamid Moghadam
 Morgan Stanley,
 Private Wealth Management
 Peter and Rozell Overmire
 Arthur and Louise Patterson
 Henry I. Prien Foundation
 Mr. and Mrs. James A. Rundel

Niels and Mary Barbara Schultz
 Mr. and Mrs. Edwin A. Seipp, Jr.
 Mr. Graham Short
 Hilary Bates and Jerome Simon
 Joan E. Steinberg
 Mr. James R. Tanenbaum and Ms.
 Elizabeth M. Scofield
 UBS AG
 Helen von Ammon
 Mr. and Mrs. Robert H. Waterman, Jr.
 Webcor Builders
 Diane B. Wilsey
 Mr. and Mrs. Martin I. Zankel
 Dr. Adrienne L. Zihlman and Dr. Jerold
 Lowenstein

\$5,000.00-\$9,999

Anonymous
 Anonymous
 Asset Management Company
 Raymond and Alkmene Bandar
 Mr. and Mrs. Joachim Bechtle
 Mr. and Mrs. W. Richard Bingham
 Bonhams & Butterfields
 Mr. and Mrs. Robert Bransten
 Mr. George Breed
 Kevin and Christine Chesson
 Chong Partners Architecture
 Mr. and Mrs. Peter Y. Chung
 Citigroup Global Markets, Inc.
 Dr. and Mrs. Stanley N. Cohen
 Ms. Suzie Coleman
 Compton Foundation, Inc.
 Mr. and Mrs. Jean-Pierre L. Conte
 Thelma Doelger Charitable Trust
 Mr. and Mrs. Thomas E. Dum
 Mr. and Mrs. A.C. Escalle
 Dr. and Mrs. Evan C. Evans, III
 Laura and John Fisher
 Dr. Erik Gaensler and Dr. Shelley Marks
 The William G. Gilmore Foundation
 The David B. Gold Foundation
 Goldman Sachs & Co.
 Mr. and Mrs. Robert E. Greeley
 Sallie and Dick Griffith
 Evelyn & Walter Haas, Jr. Fund
 Crescent Porter Hale Foundation
 Mr. and Mrs. William R. Hearst, III
 Helen M. Heller and Robert D. Heller
 Hitz Foundation
 Mr. and Mrs. Andrew Holden
 Mr. and Mrs. Richard Jacobsen
 Mr. Maurice Kanbar
 MK Gratitude Fund of RSF Social Finance
 DECEASED?? Should this be delted or
 changed to estate of X
 Ms. Marian S. Kobayashi

Donors

Jim and Martha Kropf
Mr. and Mrs. Jude P. Laspa
Tom Lippman
Mr. and Mrs. Walter J. McCullough
Kathryn Kendrick McNeil
Mr. William J. Michaely and Ms. Jancy Rickman
Mrs. Joseph A. Moore, Jr.
Dr. and Mrs. Gordon E. Moore
Paula and John Murphy
Mr. and Mrs. Gib Myers
Mr. Daniel H. Norris
Organic Valley Family of Farms
Ms. Regina Phelps
PowerBar/Nestle USA
Quaker Oats Company
Mr. and Mrs. Lloyd Root
Dr. Paul C. Silva
Tonner Hills, SSP, LLC
Mr. and Mrs. Thomas W. Tusher
Uvas Foundation
Mrs. Stephen Varnhagen
Mr. and Mrs. Roger O. Walther
Mr. Dennis D. Welch and Ms. Cynthia Anderson

\$2,500.00 - \$4,999

Dr. and Mrs. Frank Almeda
Anonymous
Anonymous
Stan Barnes
Michael J. Bennett
Mr. William J. Bennetta
Mr. Steven J. Block
John and Barbara Boyle
Josephine H. Brownback
Mr. Edwin C. Callan
Elizabeth C. Carroll
The Michael & Jeanie Casey Fund
Susan and Mitchell Cohen
D.R. Young Associates
Pilar and Lew Davies
Rajnikant and Helen Desai
Dr. and Mrs. Melvin S. Donaldson
Estate of Maybelle P. Marr
Carlo S. and Dianne A. Fowler
Joann Franklin-Knox and Maurice Knox
Charles M. Goethe Trust
Mr. and Mrs. John R. Grey
The J. Griffith Family
Mrs. Edward H. Grubb
Mr. and Mrs. Richard Hare
High Country Passage
Jeanne B. Hittell
Vivienne A. Hock
Stephen Hufford and Gretchen Frantz
Ms. Dorothy A. Hyde

Stanley H. Judd
Sidney Kass and Susie Langdon Kass
Mr. Jonathan Katz and Ms. Stephanie Pincetl
Don and Donna Kelleher
Kirkland & Ellis LLP
Ambassador Bill and Jean Lane
Dr. and Mrs. Robin Lawson
Local Independent Charities of America
Mr. and Mrs. Charles F. Lowrey
Mrs. James K. McWilliams
Maura and Robert Morey
Mr. Rand Morimoto
Jeff and Shay Morris
Mr. Timothy M. Muller
John R. Nelson
Nestle Waters North America [Arrowhead]
Diane Ososke
Ms. Ingrid Oyen
Alan and Virginia Pabst
Mr. and Mrs. Will Parish
G.H.C. Meyer Family Foundation
Drs. Pamela and Richard Rigg
Lois and Arthur Roth
San Francisco Giants
Mr. and Mrs. Edward J. Schneider, III
Mrs. Eugene Shurtleff
James L. Smith and Joyce T. Smith
Mr. Jeffrey Van Harte and Ms. Melissa Smith
Jerry and Judith Steenhoven
Mr. and Mrs. Michael Stepanian
Sidney Stern Memorial Trust
Mrs. Albert Towle
Vector Laboratories, Inc.
Grace and Steven Voorhis
Mr. and Mrs. Brooks Walker, III
Dr. Ward B. Watt and Dr. Carol L. Boggs

\$1,000-\$2,499

Maureen Aggeler
Bill and Joyce Ahern
Mark and Michele Aldrich
Howard B. Allen
Alta Partners
Mrs. B. Amoroso
Gayle A. Anderson
Mr. Gibson Anderson
Anonymous
Anonymous
Anonymous
Anonymous
Anonymous
Anonymous
Anonymous
Dr. Alissa J. Arp
Marian and Hans Baldauf

Frank and Denise Balma
Bank of America Foundation, Inc.
Mr. and Mrs. Andrew Barish
Mrs. Nancy E. Baron
Mr. and Mrs. Kevin Bartlett
Joan L. Beavin
Doris G. Bebb
The Frank Beering Family
Mr. Lance Berc
Mr. and Mrs. David B. Berelson, Jr.
Dr. and Mrs. Joseph Bernstein
Loraine and Robert G. Berry
Mr. and Mrs. John D. Bertone
Dr. Barbara L. Bessey and Dr. Kevin J. Gilmartin
Mr. and Mrs. Nick Bijur
Ms. Betty B. Blomberg
Dr. Janet B. Bodle
Dr. Beverley Bolt
Ms. Dorothy Bolton
Ms. Brittany Bottorff and Mr. Asim Bhansali
Mr. and Mrs. David Boudreau
Bruce Bowen and Junona Jonas
Norman Brand and Nancy E. Spero
Ms. Marilyn M. Brennan
Mrs. Leo S. Brenneisen
Mr. and Mrs. Robert L. Bridges
Brightroom, Inc.
Mr. and Mrs. Curtis H. Brown
Ms. Joanne E. Bruggemann
Mr. and Mrs. William N. Bucklin, III
Mr. and Mrs. Hamilton W. Budge
G. Steven and Kelli Burrill
Dr. and Mrs. Andrew K. Burt
Ms. F. Elizabeth Burwell
Mr. and Mrs. Richard F. Cahill
Ms. Jennifer Caldwell and
Mr. John H. N. Fisher
Mr. and Mrs. Lester D. Candee
Mr. Karry E. Carr
Mrs. Stacey B. Case
Mr. and Mrs. Charles R. Casey
Mr. and Mrs. Frank J. Caufield
Sandaline Cederwall and Steve Barrager
Chevron Corporation
Mr. and Mrs. David N. Chick
Ms. Mayme Chinn
Ms. Karen K. Christensen
Diane and William L. Clarke
Dr. and Mrs. William A. Clemens
Annelle Clute
Mr. and Mrs. A. Crawford Cooley
Mr. and Mrs. John Cooper
Cor-o-van Moving and Storage
Dr. and Mrs. Theodore W. Craig
Dr. and Mrs. Antonio Cucalon, Jr.
Barbara and Jim Curry

Donors

Dr. Elaine Daniels
 Dr. and Mrs. Lance G. Darin
 Mrs. Richard C. Date
 Mr. David L. Davies and Mr. John D. Weeden
 Mr. Paul L. Davies, Jr.
 Mr. and Mrs. Stephane de Bord
 Bill and Pat de Recat
 Dearfield Associates, Inc.
 Dr. and Mrs. Allen M. Dekelboun
 Mr. Gary Demyen and Mr. Les Partridge
 Charles and Mary Ann Dietrich
 Dr. Barbara Dittmann
 Mr. and Mrs. David Dollinger
 Ms. Sandra Donnell and Mr. Justin Faggioli
 Mervyn and Betty Dowd
 Mrs. Harold J. Dubay
 Sherry T. Dumke
 Lenora A. Eagar Davis
 Mr. and Mrs. David B. Edwards
 Mr. and Mrs. Frank J. Ehret
 Ms. and Dr. Anne H. Ehrlich
 Greg Endom and Vickie Desofi
 Ms. Gail Enfajian and Mr. William D. May
 Richard Faggioli
 The Margaret G. Molarsky Charitable Fund
 Farese Family Foundation
 Mr. Boris Dramov and Ms. Bonnie Fisher
 Thomas and Eva Fong Foundation
 Marilyn A. McCarrick Forni
 Penelope H. and Gordon B. Foster
 Mr. and Mrs. T. Jack Foster, Jr.
 Jules and Rose Fraden
 Donald J. Frediani and Renata Gasperi
 S. Robert and Sarah W. Freedman
 Mr. and Mrs. Richard B. Fried
 Mr. and Mrs. Tully Friedman
 Mr. and Mrs. Robert B. Friend
 Mr. and Mrs. Barry Galvin
 Mr. Don Gaspar & Family
 Mr. and Mrs. Milo S. Gates
 The Fred Gellert Family Foundation
 Gen-A Marketing
 Ingrid Gillette
 Mr. and Mrs. Clinton R. Gilliland
 Rick and Marcia Gold
 Lisa and Douglas Goldman Fund
 Mr. and Mrs. John D. Goldman
 Joseph W. Goodman
 Mr. and Mrs. Ronald Goodman
 Olga Perkovic and David Goodstein
 Constance M. Goodyear Baron and Barry C. Baron
 Dr. Caroline Grant and Mr. Tony Grant
 Peter and Victoria Grey
 Mr. and Mrs. Troy Griep
 Mr. and Mrs. Ralph J. Guggenheim

John and Johnnie Hafernik
 Mr. Charles E. Halfmann
 Dr. and Mrs. Douglas Hamilton
 Mr. and Mrs. James Hansen
 Mr. and Mrs. Tyson Harper
 Mrs. Charlene C. Harvey
 Mr. and Mrs. Guy Haskin Fernald
 George G. Hawxhurst
 Mr. and Mrs. James A. Heagy
 David Hearth and Lauren Hall
 Jim and Noreen Helvie
 Susan Hendrie-Maraïs and Laurentius Maraïs
 Mr. and Mrs. Paul Hertelendy
 Mr. and Mrs. Jerre Hitz
 Greg and Chris Hoberg
 Mr. William Hobi and Ms. Soojung Ko-Hobi
 Mr. and Mrs. Alan Hoefer
 Donald H. Holcomb
 Mr. and Mrs. Peter H. Holden
 Mr. and Mrs. Oliver L. Holmes
 Mr. and Mrs. John B. Hook
 Ms. Lisa M. Hoytt
 I & G Charitable Foundation
 IBM International Foundation
 Carolyn Del Curto Infante
 Virginia M. Ingham
 Dr. Nina G. Jablonski and Mr. George Chaplin
 Donald and Jacqueline Jacobberger
 Arthur and Jean Johnson
 Mrs. Katharine H. Johnson
 Mr. and Mrs. Thomas P. Jones, III
 Ms. Colleen Prince and Mr. Jeffrey M. Judd
 Donald and Roslyn Kahn
 Sarah and Jonathan Kahn
 Emily Kalish
 Jessica and Kirk Kaludis
 Mrs. Louise Karr
 Robert L. Katz
 Ms. Lois Kelley and Mr. James F. White
 Dr. Kenneth A. Kelsen
 Ms. Josephine Kennedy
 Ms. Isabella Kirkland and Mr. Christopher Tellis
 Dr. and Mrs. Michael D. Lagios
 Mr. and Mrs. A. M. D. Lampen
 Dr. and Mrs. Roger A. Lang
 Drs. Richard and Ann Lanzerotti
 Mr. and Mrs. Gary Lauder
 Jack and Alice Leibman
 Henri K. and Jeanne D. Lese
 Marlene and Fred Levinson
 Professor and Mrs. Paul Licht
 Mr. and Mrs. Ronald J. Linder
 Mr. E.W. Littlefield and Ms. Julia Derby

Ms. Vera M. Long
 Mrs. J. Murray Luck
 James J. Ludwig
 Mrs. Leslie Luttgens
 Dr. and Mrs. Ernest A. Maggioncalda
 Mr. Yasser Malaika
 Mr. and Mrs. Michael R. Marron
 Lou Anne and Everett Martin
 Rose Martin
 Mr. and Mrs. Bill Matthes
 Lucia Matzger
 Karin and Greg McClune
 The McElwee Family
 Dr. Patricia McEveney
 Mr. and Mrs. William McGlashan, Jr.
 Mr. and Mrs. Mark A. Medearis
 Ann M. Miller and Charles S. Raben
 Mrs. Yvonne P. Minor
 Mr. and Mrs. Tim Monahan
 Mr. James R. Moore
 Steven and Nina Moore
 Mr. and Mrs. William H. Moorhouse, Jr.
 Mr. and Mrs. Peter Morris
 Mr. and Mrs. Andrew Morrison
 Naomi Nakashima, M.D.
 Naked Juice
 Josephine G. Nattkemper
 Jackie and Howard Nemerovski
 Ms. Jeanne Newman
 Mr. and Mrs. William L. Newmeyer, III
 Sue and Ward Noble
 Mr. Michael J. Nolin
 Ms. Nora Norden
 Rachel H. Norman
 Carol and John Northwood
 Mr. and Mrs. Clyde W. Ostler
 Dr. and Mrs. Abhay Parekh
 Passage Events & Promotions
 Mike and Laura Patnode
 Virginia Patterson
 Annette Perry
 Christine Pielenz
 Barbara Pino, Elena Goldstein, Adam Goldstein, Evan Goldstein
 Tom and Carol Platner
 Drs. Joan and Allan Pont
 Lynn and Edward Poole
 Ms. Barbara Pope
 Ms. Adrianna Pope Sullivan
 Ms. Carol Preston and Ms. Maria Brown
 Dr. and Mrs. Wojciech J. Pulawski
 Mr. and Mrs. Preston Raisin
 Harold and Suzanne Raphael
 Dr. Garry A. Rayant and Dr. Kathy Fields-Rayant
 Mrs. Janie P. Rempel
 Mr. and Mrs. Hugh E. Reynolds

Donors

Road Runner Sports
Mr. and Mrs. Sanford Robertson
B.T. Rocca, Jr. Foundation
Thomas and Shelagh Rohlen
Rolph-Nicol Fund
Jack and Fran Rominger
Mrs. Maxine Rosston
Richard H. Salz
J.P. and Kelly Scandalios
Michael Scharfenstein
Ruth Gordon Schnapp and
Michael H. Schnapp
Mr. and Mrs. Michael Schnoll
Mary and Leonard Schreiber
Elizabeth Schultz
Mr. and Mrs. Dale A. Scott
Patricia K. Scott
John and Judy Sears
Olivia Sears and Craig Bicknell
Mr. and Mrs. Barton W. Shackelford
Dr. and Mrs. John W. Shell
Richard Shrieve and Yvonne Don
Dr. Jon F. Sigurdson and
Margaret J. Sigurdson
Colleen and John Silcox
Mr. Michael Simon
Mr. Malcolm Slaney and
Ms. Sara Anderson
John R. Smith and Family
Glenn Q. Snyder and
Catherine E. Allman

Mr. and Mrs. Jeffrey Solari
Mr. and Mrs. Gary J. Sorgen
Mrs. Alice B. Stearns
Mrs. Ann C. Steppan
Kelly and Sandy Harcourt
Kat Taylor and Tom Steyer
Mr. Earl Rick Stokes and
Mr. Ross H. Moore
Mr. Daniel E. Stone
Edgar N. Stone
Mrs. Mary Lee Strebl
Mrs. John A. Sutro
Mrs. Roselyne Swig
Mr. Randy Taylor
Valentine Thaler
Katharine S. and Morley Thompson
Mrs. Marilyn Thompson
Mrs. Marion Tilton
Mr. and Mrs. Ted Tobiason
Joe and Edith Tobin
Jocelyn Tom and John G. Lee
Traci's Gourmet Granola
Mr. and Mrs. Arthur Trueger
Mr. Toshio Tsuda and
Ms. Elaine Yokoyama
Dr. Virginia Tusher and
Mr. Gregory Tusher
Unilever United States Foundation, Inc.
Mr. and Mrs. W. Sloan Upton
Mr. and Mrs. Robert D. Valdez
Dr. Tjeerd H. van Andel

Mr. and Mrs. Bill Van Ingen
Mr. and Mrs. Dirk Van Meurs
Martin Vanderlaan and Patricia V. Post
Mr. Sam L. Vanlandingham
Drs. Geerat and Edith Vermeij
Mr. Richard A. Vignolo
Hugh and Eleanor Visser
Vartan and Lorraine Voskanian
Jake and Cindy Walker
Mr. and Mrs. Brooks Walker, Jr.
Mr. and Mrs. Steve Gorski
Harlan and Delcey Watkins
Mr. and Mrs. Bill Watkins
Mr. and Mrs. Paul L. Wattis, Jr.
Mr. and Mrs. Paul L. Wattis, III
Mr. and Mrs. Richard T. Welsh
Wallace and Eve Wertsch
Mr. and Mrs. Colin Wiel
Mr. and Mrs. Michael W. Wilsey
Family of Dr. Gustavus Eisen
- Academy Pioneer
Mr. and Mrs. James Wintersteen
Mr. and Mrs. Douglas Wolf
Mr. and Mrs. Wil S. Wong
Woodside Chiropractic
c/o Alwender Chiropractic
Mr. Paul Pao S. Yeh and
Ms. Miao Yeng H. Yeh
Mr. David Zicarelli and
Ms. Virginia Troyer



Raj Desai, Patrick Kociolek, and Helen Desai

Eastwood Associates 2005-2006

Anonymous
Michele and Mark Aldrich
Mary Beth and Frank Almeda
Barbara D. Andrews
Dr. and Mrs. Paul H. Arnaud, Jr.
Mary Ann and Samuel Aronson
Peter and Joan Avenali
Nancy A. Baker
Ms. Pamela Baldwin
Alkmene and Raymond Bandar
Charles Madsen Barksdale
Marie Schoppe Bartee
Sharon M. Barwin
Joan L. Beavin
Mildred J. and Edward L. Bennett
Michael Bennett and Leslie Larson
Dr. and Mrs. Bruce Bern
Loraine and Robert Berry
W. Richard Bingham
Charlotte E. Black
Sidney and Phyllis Blair
Norman Brand
Ellen and Russell Breslauer
James R. and Melinda M. Brown
Josephine H. Brownback
Eva Buxton
Shawn and Brook Byers
Betty Criley Carman
Jeanie and Michael Casey
Hector J. and Grayce D. Ceschi
Dr. and Mrs. William A. Clemens
Lewis W. Coleman
Ms. Suzie Coleman
Gerald and Buff Corsi
Mr. and Mrs. Thomas H. Day
Isabelle Z. Dokouzian
Mr. and Mrs. Mervyn R. Dowd, Jr.
Mr. and Mrs. Thomas E. Dum
Sherry T. Dumke
Margo and Harold Elberg
Charlotte and David Epstein
Veronica Espada
Helene Ettelson
Neil E. Fahy
Marie and Lawrence Feldman
M. Jean Fisher
William Foster
Muriel T. French
Sir William Fries, II (Foundation)
Mr. Stuart M. Fullerton
Robert Glavin
Dr. Florence Haimes
Dr. and Mrs. Douglas Hamilton
Stephen Hart
Mr. George G. Hawxhurst
Mr. and Mrs. James A. Heagy
Helen M. Heller

Mrs. Yaye F. Herman
Mrs. John F. Holman
Susan Hedge Hossfeld
Mr. and Mrs. John P. Hurabiell
Diane M. Ichiyasu
Virginia M. Ingham
Michael E. and Bonnie J. Irwin
Eve Iversen
Hazel B. Jacoby
Stanley H. Judd
Mr. and Mrs. Thomas B. Klein
Ms. Charlotte F. Klock
Sharon A. Landwehr
Evelyn and Robert Langston
Lois B. Lippincott
Mrs. Eroeda S. Luck
Ms. Brent H. Malarkey
Josephine Markovich
Sharon and Michael Marron
Mr. Gerald S. McCallum
Faye A. and Richard L. McCartney
Dr. and Mrs. John E. McCosker
Mr. and Mrs. William J. Michaely
Drs. Craig and Natalie Miller
Carol and Charles Mink
Holly Mitchell
Mrs. Margaret L. Montgomery
Scott Chan and Vicki Moore
Nancy and Bill Newmeyer
Diane Ososke
Alan and Virginia Pabst
Drs. Vicki and John Pearse
Wojciech J. Pulawski and
Veronica Ahrens Pulawski
Jane Radcliffe
Mary M. Renaker and Eric Q. Brazel
Mr. and Mrs. Hugh E. Reynolds
Anne M. Rianda
Elizabeth D. Rieger
Dr. Elliott River, M.D.
Lloyd and Diane Root
Jeanne Rose
Dr. Edward S. Ross
Dr. Sandra Miller Ross
Lois and Arthur Roth
Renee Rubin
I. A. Ruffer
Jaclyn J. Rusch
Dr. Katherine N. Schick
Margery Schindler
Dr. Evert I. Schlinger, Ph.D.
Harold E. Segelstad
Mrs. Eugene A. Shurtleff
Clare Wheeler Sias
Marjorie Silver
Gary Marlow Simmons
Edward Laidlaw Smith

Joyce and James Smith
Clare H. Springs
Thoralee C. Squair
Mrs. Marshall Steel, Jr.
Joan E. Steinberg
Ann and Ellis Stephens
Sylvia and Harry Steingart
Mr. and Mrs. W. Carroll Tornroth
Stefan Unnasch
Esther M. van Beers
Ethel Vergin
Shirley Wilson Victor
Helen von Ammon
Janet von Doepp
Mrs. May Walch
Timothy Walters and Susanne Prokscha
Gloria E. Wesenberg
David Whitridge
Mrs. Henry C. Williams
Dr. Stanley C. Williams
Stefan T. Williams
Ron Wilson
George and Betty Winkelman
Joan F. Yates
Mrs. Elwood C. Zimmerman

Why we are Eastwood Associates: Lois and Arthur Roth



Lois has many fond memories of visiting the Academy since she was a child and has always loved our exhibits and educational programs — so much so that she has been a docent for almost 20 years!

Lois says, “The friendly, supportive atmosphere makes the Academy an ideal place to learn and teach about the natural world.” Lois and Arthur have also been active Friends members and enjoyed many enriching experiences getting to know the scientists and other Academy supporters at special events and behind-the-scenes programs. As Eastwood Associates, they included the Academy in their estate plans so that future generations can continue to expand their knowledge about the natural world.

Eastwood Associates 2005-2006 (7/1/2005 - 6/30/2006) Estates / Memoriam List

Thomas E. Burke and Hope F. Burke Trust
Charles M. Goethe Trust
Rolph-Nicol Fund
Estate of Frank W. and Margaret Adelstein
Estate of Richard Fresco
Estate of Dorothy Frances Boy
Estate of Kathleen Kalbfleisch
Estate of D. Graeme Keith
Estate of William R. Kimball
Estate of Charles H. Merrill
Estate of Margaret Orr
Estate of Leland H. Perry
Estate of Paula Phillips
Estate of John J. Rose
Estate of Lloyd B. Ryland
Estate of Joseph S. Thompson
Estate of Ynez Y. Whilton

Academy Guild

Ms. Agabian
Ms. Alpers and Mr. Hanson
Mr. and Mrs. Alvarez
Mr. and Mrs. Bailey
Marian and Hans Baldauf
Mr. and Mrs. Bellis
Mr. and Mrs. Berg
Mr. and Mrs. Berler
Mr. and Mrs. Bijur
Mr. and Mrs. Block
Mick and Celeste Bobroff
Mr. and Mrs. Brown
Ms. Spencer and Mr. Callcott
Mr. and Mrs. Carter
Mr. and Mrs. Clahan
Mr. and Mrs. Coffman
Dr. and Mrs. Collier
Mr. and Mrs. Considine
Mr. and Mrs. Conte
Mr. and Mrs. Converse
Mr. and Mrs. Cook
Mr. and Mrs. Cussen
Ms. Devereux and Mr. Columbus
Leslie and Charlie Dicke
Mr. and Mrs. Dobos
Mr. and Mrs. Doggett
Ms. Donnelly and Mr. Brown
Mr. and Mrs. Donohoe
Mr. and Mrs. Edwards
Ms. Erlick
Mr. and Mrs. Farrell
Mr. and Mrs. Felson
Mr. Feuille and Ms. Murray

Mr. and Mrs. Fisher
Mr. and Mrs. Flynn
Mr. and Mrs. Frederick
Mr. and Mrs. Getty
Mr. and Mrs. Goldin
Mr. and Mrs. Hagan
Mr. and Mrs. Hawthornthwaite
Mrs. Huegel and Mr. Sergi
Mr. and Mrs. Hume
Dr. Lucy Hume Koukopoulos and Mr. Nicholas Koukopoulos
Ms. Liddell Hunt and Mr. Hunt
Mr. and Mrs. Jacobson
Ms. Colleen Prince and Mr. Jeffrey M. Judd
Ms. Juson and Mr. Pacoe
Mr. and Mrs. Keenan
Ms. Kleinmaus and Mr. Bolles
Mr. and Mrs. La Carrubba
Mr. and Mrs. Landry
Mr. and Mrs. Leffers
Meagan Levitan and Dale Carlson
Marie and Barry Lipman
Mr. and Mrs. Lissak
Mr. and Mrs. Magowan
Mr. Mahoney and Ms. Ellis
Mr. and Mrs. Matthes
Mr. and Mrs. Maurus
Mr. and Mrs. McCarthy
Mr. and Mrs. McDonnell
Mr. McEvoy
Mr. and Mrs. Mark A. Medearis
Mr. and Mrs. Melvin
Mr. and Mrs. Morrison

Mr. and Mrs. Nelson
Mr. and Mrs. Noble
Mr. and Mrs. Pap
Mr. and Mrs. Perrelli
Mr. and Mrs. Pharr
Mr. and Mrs. Plant
Sheridan Prior and Michael Bender
Mr. and Mrs. Ram
Mr. and Mrs. Riley
the Misses Roberts
Mr. and Mrs. Rosenberg
Ms. Sandquist and Mr. Black
Mr. and Mrs. Slaughter
Mr. and Mrs. Soloway
Mr. and Mrs. Stabler
Mr. and Mrs. Sutton
Mr. and Mrs. Sweeney
Mr. and Mrs. Tananbaum
Fitzhugh and Mary Taylor
Ms. Keene and Mr. Tellini
Mr. and Mrs. Thornton
Joe and Edith Tobin
Mr. and Mrs. Tomao
Mr. and Mrs. Tracy
Dr. and Mr. Tusher
Mr. and Mrs. Wessinger
Mr. and Mrs. Westover
Ms. Willis
John B. and Lilly J. Wong
Ms. Woolley and Mr. Bass
Ms. Wright and Mr. Evnin



Fellows and Honorary Fellows

Fellows

Warren O. Addicott	Invertebrate Zoology
Frank Almeda	Botany
Walter Alvarez	Geology
Steven C. Anderson	Herpetology
Christopher R. Andrews	Aquarium Management and Parasitology
Fred Andrews	Entomology
Paul H. Arnaud	Entomology
Alissa J. Arp	Marine Biology
Frank Asaro	Nuclear Chemistry
Francisco J. Ayala	Genetics
Bruce G. Baldwin	Botany
George E. Ball	Entomology
Richard T. Barber	Marine Biology
George W. Barlow	Ichthyology
Anthony D. Barnosky	Paleontology
Reginald H. Barrett	Environmental Science
John Barron	Micropaleontology
Bruce Bartholomew	Botany
William J. Bennetta	Science & Public Policy
Brent Berlin	Anthropology
Howard A. Bern	Zoology
Giacomo Bernardi	Ichthyology
William B. Berry	Paleontology
Laurence C. Binford	Ornithology
James A. Blake	Invertebrate Zoology
Barbara A. Block	Evolutionary, Cellular, and Molecular Physiology
Carol L. Boggs	Evolutionary Ecology
Stephen Bollens	Biological Oceanography
Sarane T. Bowen	Genetics
Margaret S. Bowman	Ornithology
Dennis Breedlove	Botany
Max C. Brewer	Research Specialist
Winslow R. Briggs	Botany
Robert D. Brown, Jr.	Geology
Thomas D. Bruns	Mycology
Robert W. Buddemeier	Environmental Studies
Margaret G. Burke	Behavioral Ecology and Education
Gregor M. Cailliet	Ichthyology
Roy L. Caldwell	Invertebrate Zoology
Sandra J. Carlson	Paleontology
Edward J. Carpenter	Biological Oceanography and Marine Microbiology
Mark H. Carr	Marine Ecology
John A. Chemsak	Entomology
Robert L. Christiansen	Geology
Christopher Chyba	Astrobiology
David A. Clague	Volcanology
William A. Clemens	Paleontology
Lloyd S. Cluff	Geology
Kenneth Coale	Oceanography
Robert K. Colwell	Zoology
Margaret W. Conkey	Anthropology
Edward Connor	Ecology

T. J. Conomos	Marine Geology
Lawrence Cory	Zoology
Daniel P. Costa	Vertebrate Ecology
Dale P. Cruikshank	Planetary Astronomy
Garniss H. Curtis	Geology
Howell Daly	Entomology
Thomas F. Daniel	Botany
Donald J. De Paolo	Geoscience
Dennis E. Desjardin	Mycology
David DesMarais	Geology and Astrobiology
Marian C. Diamond	Anatomy
Daniel Doak	Evolutionary Ecology
Robert V. Dowell	Entomology
John T. Doyen	Entomology
James A. Doyle	Botany
Robert Drewes	Herpetology
Richard Dugdale	Oceanography
John P. Dumbacher	Ornithology
Thomas O. Duncan	Botany
Thomas Dunne	Geomorphology and Hydrology
William Durham	Human Biology
Sylvia A. Earle	Botany
Paul R. Ehrlich	Conservation Biology
Emil R. Eisenhardt	Conservation
Paul Ekman	Comparative Psychology
Peter M. Elias	Medicine
Thomas S. Elias	Botany
David Epel	Cell and Developmental Biology
Don C. Erman	Fisheries Ecology
Terry L. Erwin	Entomology
William N. Eschmeyer	Ichthyology
James A. Estes	Marine Ecology
Sandra Faber	Astronomy
Daphne G. Fautin	Invertebrate Zoology
Lewis J. Feldman	Botany
Marcus W. Feldman	Mathematical Biology
Peggy L. Fiedler	Botany
Francis P. Filice	Zoology
Alexei Filippenko	Astronomy
Brian Fisher	Entomology
Michael S. Foster	Marine Biology
Laurel R. Fox	Ecology
Laurence G. Frank	Mammalogy
Andrew Franknoi	Astronomy
Peter W. Fritsch	Botany
Jon S. Galehouse	Geology
Jacques A. Gauthier	Herpetology
Wayne M. Getz	Entomology
Michael T. Ghiselin	Invertebrate Zoology
Rosie Gillespie	Entomology
Alexander N. Glazer	Molecular and Conservation Biology
Stephen Glickman	Psychology
Lynda J. Goff	Phycology
Charles Goldman	Zoology

Fellows and Honorary Fellows

Michael A. Goldman	Medical Genetics and Chromosomal Evolution	Paul Licht	Zoology
Deborah M. Gordon	Ecology	William Z. Lidicker	Mammalogy
Terrence M. Gosliner	Malacology	Kent G. Lightfoot	Archaeology & Anthropology
H. Gary Greene	Marine Geology	David R. Lindberg	Malacology
David W. Greenfield	Community Ecology of Reef Fishes	Jere H. Lipps	Paleontology
M.R.C. Greenwood	Cell Biology	Werner J. Loher	Entomology
Charles E. Griswold	Entomology	Jerold Lowenstein	Medicine
Karen Grove	Geology	James M. Lyons	Botany
John E. Hafernik	Entomology	York T. Mandra	Paleontology
Ed N. Harrison	Business	Marc S. Mangel	Behavior and Ecology
John Harte	Environmental Studies	Geoffrey Marcy	Astrophysics
David Haussler	Computer Science	Hal Markowitz	Behavior Biology
Tyrone Hayes	Herpetology	Peter Marler	Ethology
Carl E. Heiles	Astronomy	John E. McCosker	Ichthyology
Carole S. Hickman	Paleontology	Alistair W. McCrone	Geology
Frederick G. Hochberg	Invertebrate Zoology	Henry M. McHenry	Biological Anthropology
John P. Holdren	Energy & Natural Resources	Monica Medina	Evolutionary Genomics and Systems Biology
Sarah B. Hrdy	Anthropology	Gopinathan Menon	Biochemistry
James C. Ingle	Paleontology	Woodrow W. Middlekauff	Entomology
Lynn Ingram	Geology	Katharine Milton	Anthropology
Tomio Iwamoto	Ichthyology	Brent D. Mishler	Botany
Nina G. Jablonski	Anthropology	Richard L. Moe	Phycology
Matthew J. James	Paleontology and History of Science	John P. Monteverdi	Meteorology
David L. Jameson	Zoology	Richard J. Mooi	Invertebrate Zoology
William A. Jensen	Botany	Harold A. Mooney	Environmental Science
Donald C. Johanson	Anthropology	Eldridge Moores	Geology
David L. Jones	Geology	Reid Moran	Botany
Michael N. Josselyn	Ecology and Phycology	Michael J. Moratto	Anthropology
Donald R. Kaplan	Botany	Craig Moritz	Evolutionary and Conservation Genetics
David H. Kavanaugh	Entomology	David Morrison	Planetary Astronomy
James C. Kelley	Oceanography	Peter B. Moyle	Ichthyology
Donald Kennedy	Biological Sciences	Richard Muller	Astrophysics
William H. Kimbel	Anthropology	Michael A. Murphy	Paleontology & Geology
Patrick V. Kirch	Anthropology	Frederic H. Nichols	Donald Nevins Botany
David H. Kistner	Entomology	Thomas M. Niesen	Invertebrate Zoology
Richard G. Klein	Paleoanthropology	Amos M. Nur	Invertebrate Biology
J. Patrick Kocielek	Diatom Studies	James Nybakken	Geology
Mimi A. Koehl	Invertebrate Zoology	Kevin Padian	Invertebrate Zoology
Walter D. Koenig	Avian Ecology	Stephen R. Palumbi	Paleontology
Watson M. Laetsch	Botany	Theodore Papenfuss	Molecular Evolution and Conservation Biology
Michael D. Lagios	Ichthyology	Ingrid Parker	Herpetology
Robert S. Lane	Entomology	Susan Taylor Parker	Ecology
Lester H. Lange	Mathematics	Thomas Parker	Anthropology
Jean H. Langenheim	Botany	Dennis R. Parnell	Botany
Leo F. Laporte	Geology	Robert Patterson	Botany
Ralph J. Larson	Ichthyology	James Patton	Mammalogy
John D. Lattin	Entomology	Vicki Buchsbaum Pearse	Invertebrate Zoology
James V. Lawry, Jr.	Anatomy	Yvonne Pendleton	Astrophysics
Robin Lawson	Molecular Systematics	David Perlman	Journalism
Burney J. Le Boeuf	Biology	Raymond Pestrone	Geology
Welton Lee	Invertebrate Zoology	Lewis Petrinovich	Ornithology
William A. Lester	Physical Chemistry	Theodore W. Pietsch	Ichthyology
Alan E. Leviton	Herpetology		
Harlan Lewis	Botany		

Fellows and Honorary Fellows

Norman I. Platnick	Entomology	James R. Sweeney	Botany
George O. Poinar, Jr.	Entomology	Frank Talamantes	Endocrinology
Donald C. Potts	Invertebrate Zoology	Frank H. Talbot	Ichthyology
Jerry A. Powell	Entomology	Carol Tang	Paleontology
Mary E. Power	Ecology of Riverine Systems	Jill Cornell Tarter	Astronomy
Wojciech J. Pulawski	Entomology	John W. Taylor	Mycology
Alexander H. Purcell	Entomology	Leighton Taylor	Ichthyology
Peter R. Raimondi	Marine Ecology	Richard R. Tenaza	Mammalogy
Janet Randall	Mammalogy	Harry Thiers	Botany
Peter H. Raven	Botany	John Thompson	Evolutionary Ecology
Vincent H. Resh	Aquatic Biology	Robert F. Thorne	Botany
Don Reynolds	Botany	Robbin W. Thorp	Entomology
Wynetka A. Reynolds	Biochemistry	Catherine A. Toft	Ecology
Peter J. Richerson	Cultural Evolution	Jack Tomlinson	Invertebrate Zoology
Rollin C. Richmond	Evolutionary Genetics	O. Brian Toon	Atmospheric Science
John Rick	Archaeology & Paleoecology	Charles H. Townes	Physics
Bruce Robison	Deep-sea Biology	Jonathan Trent	Astrobiology,
Peter U. Rodda	Geology		Marine Biology, and
Barbara Rogoff	Developmental Psychology		Microbiology
Peter Roopnarine	Invertebrate Paleontology	John M. Tucker	Botany
Edward S. Ross	Entomology	James W. Valentine	Paleontology
Barry Roth	Malacology & Paleontology	Geerat Vermeij	Evolutionary Biology
Lynn J. Rothschild	Astrobiology and	Peter M. Vitousek	Ecology
	Evolutionary Protistology	David B. Wake	Herpetology
Joan E. Roughgarden	Herpetology	Marvalee H. Wake	Zoology
Eric Routman	Herpetology	Peter D. Ward	Geology
Rodolfo Ruibal	Herpetology	Philip S. Ward	Ant Systematics
Bruce Runnegar	Geology & Paleontology	Marius S. Wasbauer	Entomology
Robert Sapolsky	Neuroendocrinology	Dorothy Washburn	Anthropology
Vincent M. Sarich	Anthropology	Kenneth E. Watt	Zoology
Evert I. Schlinger	Entomology	Ward B. Watt	Evolutionary Biology
Russell L. Schweickart	Astrobiology	J. Dan Webster	Zoology
Eugenie Scott	Anthropology	Christian M. Wemmer	Conservation Biology
Erwin Seibel	Oceanography	Lisa E. White	Geology & Paleontology
H. Bradley Shaffer	Herpetology	Timothy D. White	Anthropology
Arthur Shapiro	Zoology	Kipling W. Will	Entomology
Petra Sierwald	Entomology	Gary C. Williams	Invertebrate Zoology
Mary Silver	Biological Oceanography	Stanley C. Williams	Entomology
Ellen L. Simms	Botany	Susan L. Williams	Marine Ecology
Barry R. Sinervo	Ecology	Terrie Williams	Comparative Physiology
Alan R. Smith	Botany	Frank G. Zalom	Entomology
Arthur Smith	Entomology	Adrienne L. Zihlman	Anthropology
Edmund Smith	Invertebrate Zoology	Irving Zucker	Biology
Thomas B. Smith	Ecology	Emile Zuckerkandl	Molecular Evolution
George Somero	Evolutionary Biochemistry		
Wayne P. Sousa	Marine Ecology		
Howard Spero	Paleoceanography		
Gregory Spicer	Invertebrate Zoology		
Maureen L. Stanton	Population Biology		
Robert C. Stebbins	Herpetology		
Kim Steiner	Botany		
Hilgard O. Sternberg	Geography		
Calvin H. Stevens	Geology		
Scott W. Stine	Physical Geography		
David Stoddart	Geography		
John L. Strother	Botany		
Raymond Sullivan	Geology		

Honorary Fellows

Bruce M. Alberts	Molecular Biology
Angel C. Alcala	Herpetology
Michele L. Aldrich	History of Science
E. N. Arnold	Herpetology
Aaron M. Bauer	Herpetology
Robert G. Bergman	Chemistry
Vladimir A. Beshkov	Herpetology
James L. Bischoff	Marine Geology
R. M. Bohart	Entomology
Michel Boudart	Chemistry

Fellows and Honorary Fellows

Margaret G. Bradbury	Ichthyology	Norman J. Silberling	Geology
Hugh Bradner	Physics	Paul C. Silva	Botany
John I. Brauman	Chemistry	Leonard S. Sklar	Geology
Thomas Briggs	Entomology	Edward L. Smith	Entomology
Stephen H. Bullock	Plant Ecology		
Sherwin Carlquist	Botany	Michael E. Soule	Evolutionary and
James Carpenter	Entomology		Conservation Biology
Alan Channing	Herpetology	Rudolph Stohler	Invertebrate Zoology
Joan R. Clark	Mineralogy	Ignacio Tinoco	Chemistry
William P. Cochlan	Biological Oceanography	Tjeerd H. van Andel	Geology
Anne C. Cohen	Invertebrate Systematics	Blaire Van Valkenburgh	Vertebrate Paleontology
Daniel M. Cohen	Ichthyology	Robert E. Wallace	Geology
James P. Collman	Chemistry	Robert C. Walter	Geology
Clarence S. Cook	Radiation Physics	Robert Wayne	Molecular Systematics
Linda Cordell	Anthropology	Harold F. Weaver	Astronomy
Claudia Corti	Herpetology	Cherie Wetzel	Botany
Richard L. Douth	Entomology	Frances Wilkerson	Biological Oceanography
William T. Doyle	Botany	Mark Wilkinson	Herpetology
David M. Eakin	Physics	Arthur P. Wolf	Anthropology
Anne H. Ehrlich	Conservation Biology	Richard N. Zare	Chemistry
William R. Evitt	Paleontology	Ermi Zhao	Herpetology
Gifford C. Ewing	Oceanography	Hannah Zimmerman	Entomology
Carl J. Ferraris, Jr.	Ichthyology		
David M. Golden	Chemistry		
George Gorman	Evolutionary Biology		
Harry W. Greene	Herpetology		
Joseph T. Gregory	Paleontology		
Joseph G. Hall	Mammalogy		
David Halpern	Physical Oceanography		
Alexander Harcourt	Primatology		
Susan P. Harrison	Conservation Biology		
Colin O. Hermans	Invertebrate Zoology		
Kim M. Howell	Herpetology		
Michael E. Irwin	Entomology		
Wim Kimmerer	Estuarine Ecology		
Richard E. Leakey	Anthropology		
Janet Leonard	Neurobiology & Behavior		
Lowell N. Lewis	Botany		
James P. Mackey	Herpetology		
Donald B. McIntyre	Geology		
Kathy Ann Miller	Marine Algal Systematics		
Richard E. Packard	Physics		
Lynne R. Parenti	Ichthyology		
John S. Pearse	Invertebrate Zoology		
Edwin P. Pister	Conservation Biology		
Karl S. Pister	Civil Engineering & Education		
	Mammalogy		
Galen B. Rathbun	Entomology		
D. C. F. Rentz	Population Genetics and Evolutionary Biology		
George K. Roderick	Anthropology		
	Botany		
Peter Rodman	Paleontology		
Jose Sarukhan	Mammalogy		
Donald E. Savage	Entomology		
Jacqueline Schonewald	Mammalogy		
Harvey I. Scudder	Entomology		
Howard S. Shellhammer	Mammalogy		

Scientific Publications, Fiscal Year 05/06

Anthropology

Shanks, Ralph 2006 *Indian Baskets of Central California: Art, Culture, and History*. Novato, CA: Costaño Books in assoc. with Miwok Archeological Preserve of Marin. (3 baskets from Academy collection).

McBrearty, S. and Jablonski, N.G. 2005 First fossil chimpanzee. *Nature*. 437:105-108. <http://www.nature.com/nature/journal/v437/n7055/abs/nature04008.html>

Jablonski, N.G. 2005 Primate homeland: Forests and the evolution of primates during the Tertiary and Quaternary in Asia. *Anthropological Sciences (Japan)* 113:117-122.

Aquatic Biology

McCosker, J.E. 2005. A New Species of Deepwater Snake Eel, *Ophichthus pullus* (Anguilliformes: Ophichthidae), from Angola and Guinea-Bissau. *Proceedings of the California Academy of Sciences* series 4, vol. 56(36):669-674.

McCosker, J.E. 2005. (Review of) *Atlas of Pacific Salmon* by Xanthippe Augerot and Dana Foley. *California Wild* 59(1): 35.

McCosker, J.E. 2006. A New Species of Deepwater Worm-eel, *Scolecenchelys castlei* (Anguilliformes: Ophichthidae), from New Zealand and Australia, with comments on *S. breviceps* and *S. macroptera*. *Journal of the Royal Society of New Zealand* 36(1):17-26.

McCosker, J.E. 2006. A New Species of Sand Eel, *Yirrkala moorei* (Anguilliformes: Ophichthidae), from the South Pacific. *Proceedings of the California Academy of Sciences* series 4, vol. 57(1):335-339.

McCosker, J.E. 2006. Symbiotic relationships. *Ecology of Marine Fishes*. L. G. Allen et al., eds. University of California Press, Berkeley. Pp. 554-563.

McCosker, J.E. and A.L. Stewart. 2006. Additions to the New Zealand eel fauna with the description of a new moray, *Anarchias supremus* (Teleostei: Muraenidae), and comments on the identity of *Gymnothorax griffini* Whitley and Phillips. *Journal of the Royal Society of New Zealand* 36(2): 83-95.

Botany

Aranha Filho, J.L.M., P. W. Fritsch, F. Almeda, and A. B. Martins. 2005. Two New Species of *Symplocos* Jacq. (Symplocaceae) from Minas Gerais, Brazil. *Proceedings of the California Academy of Sciences*, series 4, vol. 56(23): 295-303.

Kelly, L.M. and F. Almeda. 2005. Symplocaceae. In: *Flora of Chiapas*, Part 6. Pp. 33-40. California Academy of Sciences.

Almeda, F. 2005. New Taxa and New Combinations in some Mexican and Central American Melastomataceae. *Novon* 15(4): 503-518.

Kriebel, R., F. Almeda and A. Estrada. 2005. Two new species of Melastomataceae from southern Mesoamerica. *Proceedings of the California Academy of Sciences* series 4, vol. 56(37):675-683.

Almeda, F. and L. Dorr. 2006. *Miconia amilcariana* (Melastomataceae: Miconieae), a new species from the Venezuelan Andes with notes on the distribution and origin of dioecy in the Melastomataceae. *Proceedings of the California Academy of Sciences* series 4, vol. 57:549-555.

Kelly, L.M. and F. Almeda. 2006. *Symplocos pachycarpa* (Symplocaceae), a new species from southern Mexico. *Brittonia* 58:318-321.

Daniel, T.F. 2005. Catalog of Honduran Acanthaceae with taxonomic and phytogeographic notes. *Contributions from the University of Michigan Herbarium* 24: 51—108.

Daniel, T.F., E. Makings, and M. Chamberland. 2005. Additions to the Acanthaceae of Arizona. *Proceedings of the California Academy of Sciences* series 4, vol. 56: 88—90.

Daniel, T.F. 2005. Further range extensions of Mexican Acanthaceae. *Polibotánica* 18: 1—12.

Holmqvist, J.P., M. Manktelow, and T.F. Daniel. 2005. Wing pollination by bees in *Mexacanthus*

Scientific Publications, Fiscal Year 05/06

(Acanthaceae)? *Acta Botanica Mexicana* 71: 11–17.

Carnevali F., G., J.L. Tapia, I.M. Ramírez M., R. Duno de Stefano, S. Hernández, T.F. Daniel, F. Coe, J. Javier J.O., N. Diego, L. Can I., and F. May P. 2005. Notes on the flora of the Yucatán Peninsula III: new records and miscellaneous notes for the peninsular flora II. *Harvard Papers in Botany* 9: 257–296.

Daniel, T.F. 2005. A note on *Amaranthus viridis* in the California Flora. *Proceedings of the California Academy of Sciences* series 4, vol. 56: 392–394.

Daniel, T.F. 2005. Garryaceae. Pp. 15–19 in T.F. Daniel (ed.), *Flora of Chiapas*, part 6. California Academy of Sciences, San Francisco.

Daniel, T.F. 2005. Krameriaceae. Pp. 20–23 in T.F. Daniel (ed.), *Flora of Chiapas*, part 6. California Academy of Sciences, San Francisco.

Daniel, T.F., G. Carnevali, and J.L. Tapia M. 2005. New and reconsidered Mexican Acanthaceae XI: *Justicia* in the Yucatan Peninsula. *Proceedings of the California Academy of Sciences* series 4, vol. 56: 607–617.

McDade, L.A., T.F. Daniel, C.A. Kiel, and K. Vollesen. 2005. Phylogenetic relationships among Acantheae (Acanthaceae): major lineages present contrasting patterns of molecular evolution and morphological differentiation. *Systematic Botany* 30: 834–862.

Kiel, C.A., L.A. McDade, T.F. Daniel, and D. Champluvier. 2006. Phylogenetic delimitation of Isoglossinae (Acanthaceae: Justicieae) and relationships among constituent genera. *Taxon* 55: 683–694.

Fritsch, P. W. 2005. A new species of *Styrax* (Styracaceae) from southern Mexico. *Novon* 15: 421–424.

Fritsch, P. W. 2005. Styracaceae. In: T. F. Daniel (ed.), *Flora of Chiapas, Part 6*, pp. 24–32. California Academy of Sciences, San Francisco.

Fritsch, P. W. and J. A. Steyermark. 2005. Styracaceae. In: P. E. Berry, K. Yatskievych, and B. K. Holst (eds.), *Flora of the Venezuelan*

Guayana, Volume 9, pp. 283–289. Missouri Botanical Garden Press, St. Louis.

Fritsch, P. W., B. C. Cruz, F. Almeda, Y. Wang, and S. Shi. 2006. Phylogeny of *Symplocos* based on DNA sequences of the chloroplast *trnC-trnD* intergenic region. *Systematic Botany* 31: 181–192.

Ji, Y. H., P. W. Fritsch, H. Li, T. J. Xiao, and Z. K. Zhou. 2006. Phylogeny and classification of *Paris* (Melanthiaceae) inferred from DNA sequence data. *Annals of Botany* 98: 245–256.

Wang, Y. H., H. He, T. L. Min, L. H. Zhou, and P. W. Fritsch. 2006. The phylogenetic position of *Apterosperma* (Theaceae) based on morphological and karyotype characters. *Plant Systematics and Evolution* 260: 29–52.

Zhou, L. H., P. W. Fritsch, and B. Bartholomew. The Symplocaceae of Gaoligong Shan. *Proceedings of the California Academy of Sciences* series 4, vol. 57: 387–431

Center for Biodiversity Research & Information

Nikaido, M., Hamilton, H., Makimo, H., Sasaki, T., Takahashi, K., Goto, M., Kanda, N., Pastene, L. & N. Okada. 2006. Baleen whale phylogeny and a past extensive radiation event revealed by SINE insertion analysis. *Molecular Biology & Evolution*, 23(5):866–873

Abstracts, Reviews, and popular publications

Fernández, M., Merrieffield, M., Reichle, S. and H. Hamilton. 2006. What spatial predictive modeling can tell us about invasive species: California's iconic poppy in the Chilean Mattoral. *Abstracts of the 9th Annual Meeting of the Society for Conservation GIS*, San Jose, CA

Fernández, M., Upshaw, L., Deiner, K., Dumbacher, J. and H. Hamilton. 2006. An integrative approach to the phylogeography of lowland New Guinea birds: combining data from museum collections, genetics, and predictive distribution models. *Abstracts of the*

Scientific Publications, Fiscal Year 05/06

8th Annual Bay Area Conservation Biology Symposium, San Francisco, CA

Fernández, M., Calderón, J., Tejeda W., Villanueva, G., and G. Villalpando, 2006. Target distribution modeling: A major tool for conservation planning. *Abstracts of The Nature Conservancy Science Conference "Conservation Science in Practice"*, Tucson, AZ

Fernández, M., Calderón, J., Tejeda, W., Villanueva, G., & G. Villalpando. 2006. Haciendo conservación, pero por cuanto tiempo? Análisis de distribución de cinco especies de mamíferos en dos escenarios de cambio climático. *Resúmenes del 2do Congreso de Mastozoología*, La Paz, Bolivia.

Sarmann, N., Hamilton, H.. and P.J. Palsbøll. 2006. Phylogeography of the Pacific seahorse, *Hippocampus ingens*. *U.C. Berkeley College of Natural Resources Undergraduate Science Symposium*, Berkeley, CA

Irving, L., Fernández, M., and H. Hamilton. 2006. For the love of wine or redwoods? Finding a balance between land use and conservation using GIS based biogeographic methods. *Abstracts of the 9th Annual Meeting of the Society for Conservation GIS*, San Jose, CA

Entomology

Griswold, C. E., M. J. Ramírez, J. Coddington, and N. Platnick. 2005. Atlas of Phylogenetic Data for Entelegyne spiders (Araneae: Araneomorphae: Entelegynae) with comments on their Phylogeny. *Proceedings of the California Academy of Sciences* series 4, vol. 56, Supplement II, pp. 1–324.

Tang, G., C. M. Yin, C. E. Griswold and X. J. Peng. 2006. Description of *Sinothomisus* gen. nov. with a new species from Yunnan Province, China (Araneae, Thomisidae). *Zootaxa* 1366: 61–68.

Platnick, N. I. & D. Ubick. 2005. A revision of the North American spider genus *Anachemmis*

Chamberlin (Araneae, Tenggellidae). *Amer. Mus. Novitates*, 3477:1-20.

Ubick, D. & R.S. Vetter. 2005. A new species of *Apostenus* from California, with notes on the genus (Araneae, Liocranidae). *Journal of Arachnology*, 33:63-75.

Ubick, D. 2005. New genera and species of cribellate coelotine spiders from California (Araneae: Amaurobiidae). *Proceedings of the California Academy of Sciences* series 4, vol. 56(24):305-336.

Ubick, D., P. Paquin, P.E. Cushing, & V. Roth (eds). 2005. *Spiders of North America: an identification manual*. American Arachnological Society. 377 pages.

Ubick, D & J.A. Dunlop. 2005. On the placement of the Baltic amber harvestman *Gonyleptes nemastomoides* Koch & Berendt, 1854, with notes on the phylogeny of Cladonychiidae (Opiliones, Laniatores, Travunioidea). *Mitt. Mus. Nat.kd. Berl., Geowiss. Reihe* 8:75-82.

Ubick, D & R. Ozimec. 2005. On the harvestman genus *Lola* Kratochvíl (Opiliones: Laniatores). *Natura Croatica*, 14(3):161-174.

Kavanaugh, D. H. 2005. The California Academy of Sciences Gulf of Guinea Expedition (2001): III. A new species of the endemic genus *Straneo* Basilewsky, 1953, from São Tomé (Insecta: Coleoptera: Carabidae: Platynini). *Proceedings of the California Academy of Sciences* series 4, vol. 56:275-283.

Liang, H. and D. H. Kavanaugh. 2006. A review of genus *Onycholabis* Bates (Coleoptera: Carabidae: Platynini), with description of a new species from western Yunnan, China. *Coleopterists Bulletin*, 59:507-520.

Kavanaugh, D. H., and J. R. LaBonte. 2006. *Pterostichus brachylobus* Kavanaugh and LaBonte, a new species of the carabid beetle subgenus *Hypherpes* Chaudoir, 1838, from the central coast of Oregon (Insecta: Coleoptera: Carabidae: Pterostichini). *Proceedings of the California Academy*

Scientific Publications, Fiscal Year 05/06

of Sciences, series 4, vol. 57:215-223.

Penny, N.D. 2005. The California Academy of Sciences Gulf of Guinea Expedition (2001). IV. The Neuroptera of São Tomé and Príncipe Islands. *Proceedings of the California Academy of Sciences*, series 4, vol. 56(22):285-293. 4 figs., 1 table.

Penny, N.D. 2006. Two New Species of *Meleoma* (Neuroptera: Chrysopidae) from Western North America, with a Revised Key to Species. *Annals of the Entomological Society of America* 99(1):58-63.

Penny, N.D. 2006. A Review of our Knowledge of California Mecoptera. *Proceedings of the California Academy of Sciences* series 4, vol. 57:365-372.

Herpetology

Book

Pocket Guide to the Reptiles and Amphibians of East Africa. 2006. Stephen Spawls, Kim M. Howell and Robert C. Drewes. (May) A&C Black Publishers Ltd, London. (Aug) Princeton University Press, Princeton and Oxford. 240p. 278 maps.

Abstracts

Drewes, R. C., S. S. Hillman, M. S. Hedrick, L. G. Wilson, H. B. Constable and P. C. Withers. 2005. [abstract] The Anuran Lymphatic System: How Frogs “Get It Up.” World Congress of Herpetology, Stellenbosch, South Africa.

Hedrick, M. S., S. S. Hillman, R. C. Drewes & P. C. Withers 2006. [abstract] Lung ventilation is coupled to lymph movement in anuran amphibians. Society of Experimental Biology. Canterbury, UK. *Comparative Biochemistry and Physiology*. 143A:S70

Peer-reviewed publications

Hillman, S. S., P. C. Withers, M. S. Hedrick and R. C. Drewes. 2005. Functional roles for the compartmentalization of the subcutaneous lymph

sacs. *Physiological and Biochemical Zoology* 78:515-523

Frost, D. R., T. Grant, J. Faivovich, R. H. Bain, A. Haas, C. F. B. Haddad, R. O. de Sa, A. Channing, M. Wilkinson, S. C. Donnellan, C. J. Raxworthy, J. A. Campbell, B. Blotto, P. Moler, R. C. Drewes, R. A. Nussbaum, J. D. Lynch, D. M. Green and W. C. Wheeler.

2006. The amphibian tree of life. *Bulletin of the American Museum of Natural History* 297:1-370.

Delfino, G., R. C. Drewes, S. Magherini, C. Malentacchi, D. Nosi and A. Terreni.

2006. Serous cutaneous glands of the Pacific tree-frog *Hyla regilla* (Anura, Hylidae): Patterns of secretory release induced by nor-epinephrine. *Tissue & Cell* 38:65-77.

Aldrich, Michele L., and Alan E. Leviton. 2005. Winifred Goldring. *Northeastern Geology and Environmental Science* 27(3):229-238, figs. 1-6.

Leviton, Alan E., and Aldrich, Michele L. 2006. The California Academy of Sciences, Grove Karl Gilbert, and photographs of the 1906 earthquake, mostly from the Archives of the Academy. *Proceedings of the California Academy of Sciences* series 4, vol. 57(1, 18 April):1-34, figs. 1-37, 1 table.

Bruschi, S; Claudia Corti, M.A. Carretero, D.J. Harris, Benedetto Lanza, and Alan E. Leviton. 2006. Comments on the status of the Sardinian-Corsican lacertid lizard *Podarcis tiliguerta*. *Proceedings of the California Academy of Sciences* series 4, vol. 57(6, 18 April):225-245, figs. 1-9, 3 tables, Appendix.

Wilkinson, J.A., Thin Thin, Kyi Soe Lwin, and Awan Khwi Shein. 2005. A new species of Rhacophorus (Anura: Rhacophoridae) from Myanmar. *Proceedings of the California Academy of Sciences* series 4, vol. 56:42-52.

Rao, D.-Q., J.A. Wilkinson, and M.-W. Zhang. 2006. A new species of the genus *Vibrissaphora* (Anura: Megophryidae) from Yunnan Province, China. *Herpetologica* 62:90-95.

Scientific Publications, Fiscal Year 05/06

Rao, D.-Q., J.A. Wilkinson, and H.-N. Liu. 2006. A new species of *Rhacophorus* (Anura: Rhacophoridae) from Guangxi Province, China. *Zootaxa* 1258:17-31.

Wilkinson, J.A. 2006. *Rana aurora draytonii* (California red-legged frog) defensive behavior. *Herpetological Review* 35:369.

Fisher, B. L. 2005. A Model for a Global Inventory of Ants: A Case Study in Madagascar. Pages 78-89 in Nina G. Jablonski, ed., *Biodiversity: A Symposium Held on the Occasion of the 150th Anniversary of the California Academy of Sciences June 17-18, 2003. Proceedings of the California Academy of Sciences*, series 4, vol. 56, Suppl. I.

Clark, V. C., C. J. Raxworthy, V. Rakotomalala, P. Sierwald, and B. L. Fisher. 2005. Convergent evolution of chemical defense in poison frogs and arthropod prey between Madagascar and the Neotropics. *Proceedings of the National Academy of Sciences*, 102: 11617–11622 www.pnas.org/cgi/doi/10.1073/pnas.0503502102

Smith, M. A., Fisher, B. L. & Hebert, P. D. N. 2005 DNA Barcoding for effective biodiversity assessment of a hyperdiverse arthropod group: the ants of Madagascar. *Phil. Trans. Roy. Soc. Lond. B.* 360: 1825-1834 DOI: 10.1098/rstb.2005.1714

Lapolla, J. S, and B.L. Fisher. 2005 A Remarkable New Species of *Acropyga* (Hymenoptera: Formicidae) from Gabon, with a Key to the Afrotropical Species. *Proceedings of the California Academy of Sciences*, series 4, vol. 56:601-605.

Fisher, B. L. 2005. A new species of *Discothyrea* Roger from Mauritius and a new species of *Proceratium* from Madagascar (Hymenoptera: Formicidae). *Proceedings of the California Academy of Sciences*, series 4, vol. 56:657-667.

Ward, P. S., Brady, S. G., Fisher, B. L., and Schultz, T. R. 2005. Assembling the ant “Tree of Life” (Hymenoptera: Formicidae). *Myrmecologische Nachrichten* 7, 87-90.

Ouellette, G.D., B. L. Fisher, D. Girman. 2006. Molecular systematics of basal subfamilies of ants using 28S rDNA (Hymenoptera: Formicidae). *Molecular Phylogenetics and Evolution*. 40: 359-369.

Clark, V. C., V. Rakotomalala, O. Ramilijaona, L. Abrell and B. L. Fisher. 2006. Individual variation in alkaloid content of poison frogs of Madagascar (*Mantella*; Mantellidae). *Journal of Chemical Ecology* DOI 10.1007/s10886-006-9144-6

Underwood, E. C. and B. L. Fisher. 2006. The role of ants in conservation monitoring: If, when, and how. *Biological Conservation* 132: 166-182.

Ichthyology

Iwamoto, T. and Elexey Orlov. 2006 (Apr) *Paracetonus flagellicaudus* Koefoed, 1927 (Macrouridae, Gadiformes, Teleostei), a rare grenadier from the Mid-Atlantic Ridge and Madagascar Plateau. *Proceedings of the California Academy of Sciences*, series 4, vol. 57(11):379-386.

Invertebrate Zoology & Geology

Gosliner, T. M. 2006. Preface. In Valdés, A., J. Hamann, D. Behrens and A. Dupont. pp. v. *Caribbean Sea Slugs*. Sea Challengers Natural History Books, Gig Harbor.

Pola, M. and T. M. Gosliner 2005. A new species of *Tambja* (Nudibranchia: Polyceridae: Nembrothinae) from southern Brazil. *Journal of the Marine Biological Association of the United Kingdom* 85:1-6.

Smith, V. and T. M. Gosliner 2005. A new species of *Tritonia* from Okinawa. (Mollusca: Nudibranchia) and its association with a gorgonian octocoral. *Proceedings of the California Academy of Sciences* series 4, vol. 54: 255-278.

Williams, G. 2006 New taxa of octocorals (Anthozoa: Octocorallia) from the northeastern Pacific Ocean. *Proceedings of the California Academy of Sciences*

Scientific Publications, Fiscal Year 05/06

series 4, vol. 56(5): 53-65.

Williams, G. 2006 A new genus and species of gorgonian octocoral (Anthozoa: Plexauridae) from Antarctic Waters. *Proceedings of the California Academy of Sciences* series 4, vol. 56(26) 379-390 (with P.J. López-González).

Mooi, R., B. David, and G. Wray. 2005. Arrays in rays: terminal addition in echinoderms and its correlation with gene expression. *Evolution and Development* 7(6):542-555.

Martínez, S., and R. Mooi. 2005. Extinct and extant sand dollars (Clypeasteroidea: Echinoidea) from Uruguay. *Revista de Biología Tropical* 53(3):1-7.

Burns, C., K. A. Campbell, and R. Mooi. 2005. Exceptional crinoid occurrences and associated carbonates of the Keasey Formation (Lower Oligocene) at Mist, Oregon, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology* 227(1-3):210-231.

Baumiller, T.K., F.J. Gahn, C.G. Messing, and R. Mooi. 2006. Crinoids and their enemies: ecological and evolutionary implications of biotic interactions illustrated with three examples. Abstracts for the 2nd International Palaeontological Congress, Beijing, 17-21 June 2006.

Lockhart, S., R. Mooi, and C. Jones. 2006. Benthic imagery of echinoids living in Antarctic shelf habitats. *Abstracts in Honor of the 70th Birthday of John Pearse*.

Book

Kociolek, J.P. and Witkowski, A. [Eds]. 2005. Diatoms: Taxonomy and Ecology; A Marriage of Necessity. Proceedings of a Workshop. *Proceedings of the California Academy of Sciences* series 4, vol. 56: 97-187.

Papers

Kociolek, J.P. 2005. A Checklist and Preliminary Bibliography of the Recent, Freshwater Diatoms of

Inland Environments of the Continental United States. *Proceedings of the California Academy of Sciences* series 4, vol. 56: 395-525.

Strelnikova, N.I., Fourtanier, E. and Kociolek, J.P. 2005. New data on the morphology of *Aulacodiscus kelleri* (Bacillariophyta). *Botanische Zhurnal* 90:351-353.

Strelnikova, N.I., Fourtanier, E. and Kociolek, J.P. 2005. New data on the morphology of *Aulacodiscus hirtus* (Bacillariophyta). *Botanische Zhurnal* 90:1032-1033.

Novitski, L., Kociolek, J.P. and Fourtanier, E. 2005. Preliminary light and scanning electron microscope observations of marine fossil *Eunotia* species with comments on the evolution of the genus *Eunotia*. *Diatom Research* 20: 137-143.

Kociolek, J.P. 2005. Taxonomy and ecology: further considerations. Pp. 99-106 In: J.P. Kociolek and A. Witkowski. [Eds]. 2005. Diatoms: Taxonomy and Ecology; A Marriage of Necessity. Proceedings of a Workshop. *Proceedings of the California Academy of Sciences* series 4, vol. 56: 97-187.

Siver, P.A., Hamilton, P.B., Stachura-Suchoples, K., and Kociolek, J.P. 2005. Freshwater diatom floras of North America: Cape Cod, Massachusetts, U.S.A. *Iconographia Diatomologica* 14: 1-512.

Gomez-Daglio, L. and R. Van Syoc. 2006. A new genus and species of high intertidal barnacle (Cirripedia, Tetralitidae) from Baja California Sur, México. *Zootaxa* 1118: 57-68.

Anderson, Laurie, C., and Roopnarine, Peter D. 2005. Role of constraint and selection in the morphologic evolution of *Caryocorbula* (Mollusca: Corbulidae) from the Caribbean Neogene. *Palaeontologia Electronica* Vol. 8, Issue 2; 4A:18p, 770KB; http://palaeoelectronica.org/paleo/2005_2/mollusca/issue2_05.htm

Angielczyk, Kenneth D., Peter D. Roopnarine and Steve C. Wang 2005. Modeling the role of primary

Scientific Publications, Fiscal Year 05/06

productivity disruption in End-Permian extinctions, Karoo Basin, South Africa. *In The Nonmarine Permian*. S. G. Lucas and K. E. Zeigler (eds.). New Mexico Museum of Natural History and Science Bulletin. No. 30. p. 16-23.

Roopnarine, P. D. 2005. The likelihood of stratophenetic-based hypotheses of genealogical succession. *Special Papers in Palaeontology* 73:143–157.

Roopnarine, Peter, D. 2005. Microevolutionary dynamics of the Early Devonian conodont *Wurmiella* from the Great Basin of Nevada. *Palaeontologia Electronica* Vol. 8, Issue 2; 3A:16p, 860KB; http://palaeo-electronica.org/paleo/2005_2/dynamics/issue2_05.htm

Roopnarine, P. D. 2006. Extinction cascades and catastrophe in ancient food webs. *Paleobiology* 32:1-19.

Roopnarine, P. D., K. D. Angielczyk and R. Hertog 2006. Comment on “Statistical Independence of Escalatory Ecological Trends in Phanerozoic Marine Invertebrates”. *Science* 314:925d.

Ornithology and Mammalogy

Durnin, M.E., P.J. Palsbøll, O.A. Ryder, and D.R. McCullough. 2006. A reliable genetic technique for sex determination of giant panda (*Ailuropoda melanoleuca*) from non-invasively collected hair samples. *Conservation Genetics* 8(3):715-720.

Flannery, M.E., S.L. Guers, T. Gardali, N. Nur, and G.R. Geupel. 2004. Landbird migration at the Salton Sea: The value of desert riparian habitat. *Studies in Avian Biology* 27:106-115.

Fleischer, R.C., J.J. Kirchman, J.P. Dumbacher, L. Bevier, C. Dove, N.C. Rotzel, S.V. Edwards, M. Lammertink, K.J. Miglia, AND W.S. Moore. 2006. Mid-Pleistocene divergence of Cuban and North American ivory-billed woodpeckers. *Biological Letters* 2:466-469.

Hayes, M.P., M.R. Jennings, and G. Rathbun. 2006. *Rana draytonii* (California Red-legged Frog) Prey. *Herpetological Review* 37(4):449.

Howell, S.N.G. 2005. Large skuas off North Carolina in May. *Birding World* 18:290-296.

Howell, S.N.G. 2005. Revisiting an old question: How many skua species occur off the Pacific coast of North America? *Western Birds* 36:71-72.

Howell, S.N.G. 2006. Primary molt in the Black-footed Albatross. *Western Birds* 37:241-244.

Howell, S.N.G., J.H. Barry, AND J.E. Pike. 2006. Delayed preformative molt in the Barn Swallow. *Western Birds* 37:56-59.

Leonard, L., Dyke, G.J., AND M. Van Tuinen. 2005. A new specimen of the fossil paleognath *Lithornis* from the earliest Paleogene of Denmark. *American Museum Novitates* 3491:1-11.

Paliwal, S., G.K. Menon, AND S. Mitragotri. 2006. Low-frequency sonophoresis: Ultrastructural basis for stratum corneum permeability assessed using quantum dots. *Journal of Investigative Dermatology* 126:1095-1011.

Pyle, P. 2005. Molts and Plumages of Ducks (Anatinae). *Waterbirds* 28(2):208-219.

Pyle, P. 2005. Remigial molt patterns in North American Falconiformes as related to age, sex, breeding status, and life-history strategies. *The Condor* 107(4):823-834.

Pyle, P. 2006. Staffelmauser and other adaptive strategies for wing molt in larger birds. *Western Birds* 37:179-185.

Pyle, P. 2006. Offshore Pacific highlight in summer-fall 2005: Just another year. *North American Birds* 60:4-13.

Pyle, P., G. FRIEDRICHSEN, T. STAUDT, C. OEDEKOVEN,

Scientific Publications, Fiscal Year 05/06

AND L.T. BALANCE. 2006. First record of Ringed Storm-Petrel (*Oceanodroma hornbyi*) for North America. *North American Birds* 60:162-163.

Rathbun, C.D., and G. Rathbun. 2006. Social structure of the bushveld sengi (*Elephantulus intufi*) in Namibia and the evolution of monogamy in the Macroscelidea. *Journal of Zoology* 269:391-399.

Rathbun, G., and C.D. Rathbun. 2005. Noki or dassie-rat (*Petromus typicus*) feeding ecology and petrophily. *Belgian Journal of Zoology* 135 (supplement):69-75.

Rathbun, G.B., AND C.D. Rathbun. 2006. Social monogamy in the noki or dassie-rat (*Petromus typicus*) in Namibia. *Mammalian Biology* 71:203-213.

Rathbun, G.B., AND C.D. Rathbun. 2006. Radio-tracking Namib Desert golden moles. *Afrotherian Conservation - Newsletter of the IUCN-SSC Afrotheria Specialist Group* 4:5-6.

Rathbun, G.B., Ed. 2005. Order Macroscelidea, Pages 22-34 in J.D. Skinner and C.T. Chimimba (eds.), *The Mammals of the Southern African Subregion*. Cambridge University Press, Cape Town.

Topf, A.L., M.T.P. Gilbert, J.P. Dumbacher, and A.R. Hoelzel. 2005. Tracing the phylogeography of human populations in Britain based on 4th-11th century mtDNA genotypes. *Molecular Biology and Evolution* 23:152-161.

Wemmer, C., V. Krishnamurthy, S. Shrestha, L.A. Hayek, M. Thant, and K.A. Nanjappa. 2006. Assessment of body condition in Asian elephants (*Elephas maximus*). *Zoo Biology* 25:187-200.

Wemmer, C., P. Leimgruber, Y. Kelly, D. Htut, and M. Aung. 2006. *Managing wild elephants in Alaungdaw Kathapa National Park & Htamanthi Wildlife Sanctuary, Sagaing Division, Myanmar*. Smithsonian National Zoological Park, Washington, D.C. 54 pp.

W.B. Simison, Lindberg, D. R. and Boore, J. 2006. Rolling circle amplification of metazoan mitochondrial genomes. *Molecular Phylogenetics and Evolution*, 39:562-567.

W.B. Simison 2006. Patterns of endemism for nearshore gastropod molluscs: *A new view of the Gulf of California*. *Journal of Molluscan Studies*, 72: 53-63.

Shi, H., J.F. Parham, W.B. Simison, J. Wang, S. Gong, and B. Fu. 2005. A report on the wild hybridization between two species of threatened Asian box turtles (Testudines: *Cuora*) on Hainan Island, China. *Amphibia-Reptilia* 26(3):377-381

Docents and Volunteers

Parvaneh Abbaspour
 Jean Adams
 Maureen Aggeler
 William Ahern
 Julie Alden
 Barbara Anderson
 Barbara D. Andrews
 Jackie Andrews
 Mary Angelich
 Carmelita Arburua
 Connie Armitage
 Madeline Arnaud
 Mary Ann Aronson
 Edith Arrick
 Raymond Bandar
 Leslie Bandy
 Ellen Barth
 J. Fredric Beeler
 George Bell
 Stanley Benedict
 Terance Bennan
 Alessandro Bernardini
 Helen Bernstein
 Loraine Berry
 Rachael Bertone
 Catherine Best
 Celeste Bieber
 Nancy Birchett
 Helen Block
 Linda Blondis
 Dale Blosser
 Bruce Bochte
 Janet Bodle
 Marian Boede
 Satean Boonmanant
 Roberta Borgonovo
 Gregory Borman
 Asphahane Bouguerra-Deval
 Barbara Brasil
 Debbie Brennan
 Lee Brenneisen
 Patricia Brooks
 Bari Brown
 Charlie Brown
 Jim Brown
 Judy Brown
 Melinda Brown
 Andrew Browne
 Joanne Bruggemann
 Laura Buchan
 Diane Butler
 Chad Byers
 Rex Carey
 Robin Carlson
 Betty Carman
 Dana Carrison-Stone
 Fred Chambers

Tom Chambers
 Sally Champe
 Stephen Cherry
 Libby Chizick
 A. Reese Christopherson
 Ginnie Christopherson
 Joanne Chu
 Teresa Chuang
 Bre-Lyn Cober
 Christine Cochrane
 George Cohen
 Isabel Cohen
 Anne Cohler
 Dick Coleman
 Martha Conant
 Roger Conant
 Melinda Conners
 Ann Conroy
 Joan Cooper
 Patricia Cornell
 Greg Corning
 Lysbeth Corsi
 Ann Costigan
 Ellen Cowley
 Jacqueline Craig
 Ronald Cramer
 William Crawford
 Irene Culver
 Kenneth Culver
 Bena Currin
 Kevin Cutter
 Ronald Dammann
 Pramila Dandekar
 Elaine Daniels
 Emily Date
 Tom Day
 Kristine De Mello
 Kathy Deaton
 Ronald DeCloux
 Tina DeCloux
 Jean A. DeMouthe
 Zina Deretsky
 Kate Dettenrieder
 Karma DeWitt
 Diane Dias
 Eugenio Diaz
 Rachel Diaz-Bastin
 Marlene Dickerman
 Tom Dickerman
 Jill Dickerson
 Mary Margaret Dickinson
 Truc Dinh
 Inge Dobel
 Helen Doherty
 Steve Doherty
 Theresa Doherty
 Clarence Donahoe III

Jessica Donald
 Kendra Dorman
 Carolyn Dow
 Jerry Dow
 Mervyn Dowd, Jr.
 Brian Downing
 Melanie Doyle
 Linda Dragavon
 Paula Dragosh
 Laura Ducoff
 Marilyn Duman
 Jennifer Dursi
 James Duxbury
 Donald Eager
 Marcy Eason
 Vivian Easter
 Albert Edgerton
 Nicole Edmison
 Christine Elder
 Ashley Elinor
 Nancy Ellis
 Jackie Eng
 Robert Entwistle
 Kim Erickson
 Oscar Erickson
 Maria Esclamado
 Ted Evans
 Neil Fahy
 Sylvia Fama
 Jennifer Fang
 Johanna Fassbender
 James Fidian
 Arville Finacom
 Donna Fisher
 Joan Florence
 Michael Foley
 Wilma Follette
 Marie Fontaine
 Sister Maria Foraboschi
 Muriel Forlerer
 Marilyn Forni
 Gordon B. Foster
 Penelope Foster
 Jules Fraden
 Josh Frager
 Kate Frankel
 Joann Franklin-Knox
 Neti Fredericks
 Robert Freidenberg
 Virginia Friedman
 Daniel Froloff
 Alberta Fross
 Alison Fuller
 SpuMei Fung
 Jane Galvan
 Evelyn Gara
 Dana Gardner

Diana Gay-Catania
 Jon Geigenmuller
 Mark Gibson
 Gretchen Gillfillan
 Nigel Gladhart
 Gabrielle Goffinet
 Richard Golden
 Jenoh Gonzales
 Marian Gonzalez
 Alicia Goode
 Carol Gordon
 Sami Goski
 Weston Gossage
 Maya Gounard
 Phyllis Graff
 Kenneth Graham
 Pat Graham
 Heather Graybehl
 Melissa Grebinec
 William Hadley
 Betty Hall
 Douglas Hamilton
 Ben Hammett
 Marianne Hane
 Jeff Hansen
 Ann Hardeman
 Susan Hardeman
 Lily Harmon-Gross
 Meredith Harrington
 Karen Hart
 Ed Hartsook
 Barbara (B.J.) Hauge
 Erik Hawk
 Maybo He
 Donald Heckman
 Debby Hector
 Ratsirarson Helian
 Helen Heller
 Virginia Helleskov
 Kelly Herbinson
 Blas Herrera
 Rachel Hertog
 Annabel Hertz
 Richard Herwitt
 Michael Heyder
 Donald Heyneman
 Nathaniel Hirigoyen
 Tinya Hoang
 Tinyee Hoang
 Robert Hoellwarth
 Mary Louise Hogikyan
 Anne Holden
 Katie Holmes
 Florence Holub
 Margery Hom-Brown
 Harold Honath
 Tisha Hong

Docents and Volunteers

Joy Horn	M.Endora King-Shey	Douglass MacMillan	Burt Norall
John Hoskins	Shirley Kison	Eve Maher	Marion Norberg
Catherine Hounshell	Carla Kociolek	Ekhard Mahl	Helen Norris
May Howell	Erika Kociolek	Giovanni Maki	John Northwood
Margit Hrubos	Matthew Koehler	Brent Malarkey	Robert Norvell
Teming Hsueh	Heather Koski	DeAda Mally	Carolyn O'Brien
Cindy Hu	Raina Kowlessar	Everett Martin	Patricia O'Brien
Linda Huang	Richard Krause	Kay Martin	Shizuko Okada
Jennifer Hudgins	Nancy Young Krauss	Lou Anne Martin	Patricia Okamoto
Rynda Hudman	Martha Kropf	Gary Mason	Ken Okutake
Elena Huey	David Laity	Kerry Massie	Kari Olila
Frank Hui	Mary Jane Laity	Herb Masters	Georgina Ortiz
Gerhard Hundt	David Laity, Jr.	Cynthia Matano	Ingrid Oyen
Jocelyn Hunter	Chad Lane	Brian Matas	Alan Pabst
Walter Hurst	Brent Lanford	Jean Mattos-Reano	Ginny Pabst
Ann Hutchison	Robert Langston	Kevin McCoy	Kathleen Pabst
Nicholas Allen Hyde	Michel Lau	Megan McDonald	Florence Pardini
Mary Ann Irvine	Shoshana Lavinghause	Phil McKenna	Mac Parish
Cynthia Jackson	Eleanor Lawry	Sean McLeary	Litton Pattie
William Jackson	Betsy Lawson	Meg Meal	Hana Pazdirkova
Jennifer Jacobs	Anthony Lee	Will Meecham	Nancy Pease
Shellie Jacobson	C. Bruce Lee	Maureen Meikle	Maria Pegoraro
Sachi Jain	Chris Lee	Robert Mendle	Gerry Pelletier
Anet James	Patrick Lee	Ramon Mendoza	Michel Perekrestenko
Sarah James	Enid Leff	Mick Menigoz	Annette Perry
Therese James	Daniel Leite	Bill Merkel	Rebecca Peters
Faith Jansen	Elizabeth Leite	George Metz	Linda Pettigrew
Nani Jansen	Sandy LeMole	Richard Meyerhoff	Thomas Pickford
Jessica Jarett	Roderick Leong	Kathy Middleton	Betty Pollock
John Jennings	Don Lepley	Naomi Miller	Peter Pomilia
Natalia Jessen	Henri Lese	Sarah Miller	Cindy Powers
Wesley Jessup	Ricky Leung	Ralph Miller, III	Ann Preece
Michael Jeung	Nancy Levine	Charles Mink	Elizabeth Proctor
Art Johnson	Cheryl Lewis	Bill Mitchell	Robin Prothro
Beverly Joan Johnson	Simone Lewis-Koskinen	Patricia Mitchell	Heather Pugh
Jean Johnson	Gina Li	Rand Miyashiro	Eric Quach
Kameron Johnson	Veronica Li	Gerald Moore	Gina Ann Quach
Sonja Johnson	Ellen Lieber	Mary Edith Moore	Sharon Quach
Linda Johnston	Sandra Liestner	Meghan Mortensen	Steven Quach
Bertha Jones	John Likas	William Munich	Charlene Quan
Ed Jones	Kathleen Lilienthal	John Musante	Christopher Quock
Morris Jones	Tammy Lim	Carolyn Myers	Jane Radcliffe
Stanley Judd	Sandy Linder	Peter Myers	Peter Ralston
Vicky Julian	Lois Lippincott	Irene Nakamura	Helian Ratsirarson
Logan Kahle	Carole Litwin	Kristen Natali	Owen Raven
Rachel Kalman	Dawn LoBaugh	Joelene Nation	Kathy Reichardt
Ruth Kamena	Leslie Longabach	Dan Neff	Louise Reiter
Christine Kasman	Francisco Lopez	Jean Neff	Betty Reuter
Mamiko Kawaguchi	Sonny Lopez	Erikka Nelson	Hugh Reynolds
Yvan Kaweck	Laura Lorbeer	Patricia Nelson	Julian Rhine
Diane Keech	Bernadette Lorda	Hudelle Newman	Elizabeth Rieger
Lois Kelley	June Low	John Newman	Kristen Roberts
Richard Kendall	JoAnne Ludvigson	Maxime Louise Newman	Mary Roberts
Rosina Kendall	Kiamara Ludwig	Bernice Ng	Hase Rodenbaugh
Saralee Keropian	Mei Luu	Carland Nicholson	Jeanne Rose
Doris Ketcham	Jerry Mabie	Therese Nikas	Sarah Noel Ross
Virginia Kibre	Eva Mac	Carmela Nilan	Tinka Ross

Docents and Volunteers

Tom Ross
Sissy Rossi
Lois Roth
Juliet Rothman
Leonard Rothman
Angelo Rufino
Dorothy Rumney
Judy Ryan
Victoria Saxe
Josh Schechtel
Mike Schell
Katherine Schick
Katherine Schide
Herbert Schmidt
LaVerne Schmidt
Peter Schmidt
Velma Schnoll
Jacqueline Schonewald
Steve Schuchalter
Elizabeth Schultz
Norman [Jerry] Scott
Frankie Seffens
Lesley Segedy
Jody Serra
Bryan Sesser
Alice Settle
Wayne Settle
Albert Shell
Zejian Shen
Peter Shepard
Jessica Sheppard
Walt Shepps
Judy Sher
Marjorie Silver
Ron Simpson
Karen Siou
Carla Siqueiros
Victoria Skirpa
Clyde Smith
Doreen Smith
Sheldon Smith
Sue Smith
Marilyn Smulyan
Maria Solis
Keary Sorenson
Connie Spanier
Jim Stack
Julia Stalker
Barbara Stanton
Nancy Stearns
Ted Steffens
Joan Steinberg
Roger Steiner
Anne (Briggs) Stern
Steven Stevens
Anne Stevenson
Douglas Stewart

Lana Stigura
Dave Stockdale
Edgar Stone
Carol Straus
Mila Stroganoff
Brian Sulley
Mary Suter
Marilyn Noda Swartz
Isidore Szczepaniak
Frank Taforo
Vincent Tang
Ruth Taylor
Chris Terry
Fumey Tete
Marilyn Thompson
Tim Tindol
David Toren
Patricio Trigo
Richard Trusendi
Karen Turner
William Urbani
Nancy Valente
Patricia Venturino
Joan Verdi
Joan Vernon
Adrienne Villalon
Eleanor Visser
Sadie Waddington
Anne Kristine Wagener
Gentle Wagner
Kim Wallace
Janet Walsh
Lesley-Marie Walsh
Matt Wandell
Hui-Hui Wang
Jennifer Wang
Delcey Watkins
Benson Way
Barbara Webber
John Weight
Brooke Weinstein
Carol Deane Weiske
Janet Wessel
Barbara West
Ann Weybright
Walter Weybright
Potter Wickware
Paul Williams
Marcella Williamson
Wilfred Willis
Thais Winsome
Jennifer Wong
Melinda Wong
Hannah Wood
Kristen Ybarra
Brenda Yesko
Yukiko Yoshida

Catherine You
Lois Yuen
Helen Yune-Trowbridge
Chris Zable
Flora Zagorites

Balance Sheet

June 30, 2006 with comparative totals for 2005

Assets	Operating	Plant	Endowment	Total All Funds	
				2006	2005
Cash & Equivalents	\$440,877	\$6,210,123	\$-	\$6,651,000	\$6,993,523
Investments in Marketable Securities	2,457,055	161,589,837	140,217,060	304,263,952	318,874,044
Receivables:					
Research Grants	125,865	-	-	125,865	335,606
Other Grants	11,796	270,050	-	281,846	300,373
Interest & Dividends		151,770	1,263,298	1,415,068	1,288,501
Other Receivables, net	152,850	64,375	-	217,225	856,048
Contributions, net	145,451	51,868,700	1,319,882	53,334,033	26,049,409
Due (to) from other funds	(437,092)	-	437,092	-	-
Inventory	59,985			59,985	290,135
Prepaid Expenses	1,093,258	1,663,900		2,757,158	1,105,238
Notes Receivable, net	-	-	8,637,405	8,637,405	-
Investments Held in Trust			5,443,418	5,443,418	5,085,235
Restricted Cash	-	350,000	-	350,000	350,000
Deferred Bond Financing Costs, Net	-	7,862,743	-	7,862,743	8,144,909
Property & Equipment at cost, less Accumulated Depreciation	-	169,553,902	-	169,553,902	89,355,203
Total Assets	\$4,050,045	\$399,585,400	\$157,318,155	\$560,953,600	\$459,028,224
Liabilities & Net Assets					
Accounts Payable	\$157,375	\$17,644,985	\$-	\$17,802,360	\$302,058
Accrued Expenses & Other Liabilities	1,080,271	343,530	824,118	2,247,919	4,262,185
Deferred Income	192,211	50,000.00		242,211	174,429
Annuities Payable			1,619,596	1,619,596	1,038,759
Series 2003-A Bonds	0	180,000,000	0	180,000,000	180,000,000
Other Long Term Liability	0	480,842	0	480,842	202,351
Total Liabilities	1,429,857	198,519,357	2,443,714	202,392,928	185,979,782
Unrestricted Net Assets					
Available for Operations	629,353	48,464,783	9,850,000	58,944,136	63,387,404
Invested in Property & Equipment	- 0	83,203,779	- 0	83,203,779	35,995,212
Designated for Endowment	- 0	- 0	98,712,489	98,712,489	88,307,470
Total Unrestricted	629,353	131,668,562	108,562,489	240,860,404	187,690,086
Temporarily Restricted Net Assets	1,990,835	69,397,481	11,824,003	83,212,319	52,741,915
Permanently Restricted Net Assets	- 0	- 0	34,487,949	34,487,949	32,616,441
Total Net Assets	2,620,188	201,066,043	154,874,441	358,560,672	273,048,442
Total Liabilities & Net Assets	\$4,050,045	\$399,585,400	\$157,318,155	\$560,953,600	\$459,028,224

Statement of Activities

Years Ended June 30, 2006 and 2005

				Total All Funds	
Changes in Net Assets	Operating	Plant	Endowment	2006	2005
Revenue & Gains					
Admissions	828,451			828,451	724,287
Contributions	3,951,183	46,199,013	3,378,007	53,528,203	30,308,704
Memberships	612,076	-	-	612,076	590,848
Tuition & Program Fees	691,999	-	-	691,999	755,309
Auxiliary Activities	708,835	-	-	708,835	774,913
Government Grant Income	1,728,896	-	-	1,728,896	1,706,154
City & County of San Francisco	1,827,374	31,852,292		33,679,666	5,251,416
Investment Income	223,381	7,142,425	3,676,726	11,042,532	6,342,695
Net Realized and Unrealized Gains					
on Long-Term Investments	-	(36,173)	7,348,107	7,311,934	10,595,995
Gain on Sale of Property and Equipment	-	8,495,244		8,495,244	
Net Insurance Proceeds		-		-	395,249
Total Revenue & Gains	10,572,195	93,652,801	14,402,840	118,627,836	57,445,570
Expenses					
Research	7,910,172	2,701,592	-	10,611,764	10,032,143
Public Programs	3,181,441	800,314	-	3,981,755	4,370,441
Aquarium	2,597,633	595,657	-	3,193,290	3,398,671
Development & Membership	2,057,402	1,278,533	-	3,335,935	3,447,803
Auxiliary Activities	962,040	52,305	-	1,014,345	861,164
Management & General	2,012,028	329,251	-	2,341,279	2,877,507
New Academy & Transition		8,524,738		8,524,738	7,214,574
Total Expense	18,720,716	14,282,390	-	33,003,106	32,202,303
Transfers Between Funds					
Capital Expenditures	(279,177)	279,177	-	-	-
Other Transfers	8,677,063	(9,150,315)	473,252	-	-
Cumulative Effect of Accounting					
Change for Asset Retirement Obligations	-	(112,500)	-	(112,500)	
Increase/(Decrease) in Net Assets	249,365	70,386,773	14,876,092	85,512,230	25,243,267
Net Assets Beginning of Year	2,370,823	130,679,270	139,998,349	273,048,442	247,805,175
Net Assets End of Year	\$2,620,188	\$201,066,043	\$154,874,441	\$358,560,672	\$273,048,442

Operating Revenue & Transfer: \$19.2 million

Operating Expenses: \$18.7

	\$ Millions	Percent		\$ Millions	Percent
Admissions	\$0.8	4.3%	Management & General	\$2.0	10.7%
Contributions	4.0	20.5%	Auxiliary Activities	1.0	5.1%
Memberships	0.6	3.2%	Development & Membership	2.1	11.0%
Tuition & Program Fees	0.7	3.6%	Aquarium	2.6	13.9%
Auxiliary Activities	0.7	3.7%	Public Programs	3.2	17.0%
Government	3.6	18.5%	Research	7.9	42.3%
Investment & Endowment Transfer	8.9	46.2%		\$18.7	100%
	\$19.2	100%			